

#### **Bakersfield to Palmdale Project Section**

**Open House Meeting Series September 2018** 

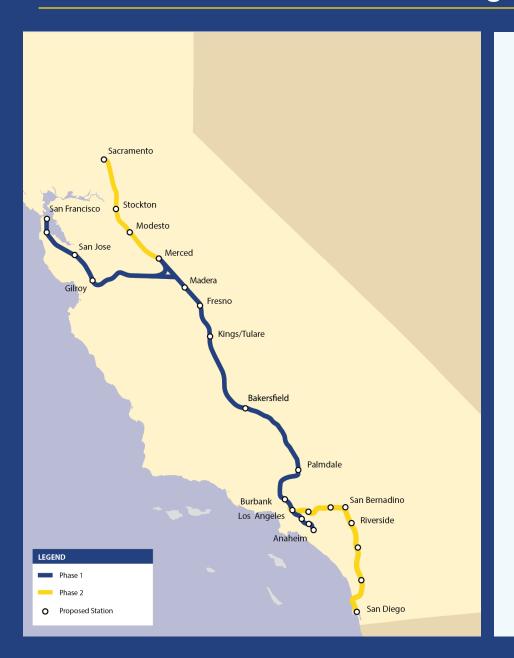
#### **AGENDA**

- California High-Speed Rail Program
- Stakeholder Engagement
- Bakersfield to Palmdale Project Section
- Environmental Process & State's Preferred Alternative
- Next Steps

## CALIFORNIA HIGH-SPEED RAIL PROGRAM



#### **HIGH-SPEED RAIL:** Connecting California





**Increase Mobility** 



**Needed Alternative** 



**Better Air Quality** 



**Job Growth** 

#### **SOUTHERN CALIFORNIA: Meeting Our Commitments**

- Complete Statewide Phase 1
   System Env. Clearance
- Deliver the Silicon Valley to Central Valley Line as soon as possible
- Deliver the full Phase 1 System
- Invest bookend funds in Urban Corridors in the South and North
- Continue planning for Phase 2 extensions



#### IT'S HAPPENING!

- Approximately 119 miles
- Madera to North of Bakersfield
- Approximately \$3 Billion Investment
- 21 Active Construction Sites
- 2,000 + Jobs and Counting











## STAKEHOLDER ENGAGEMENT



#### COLLABORATIVE APPROACH BALANCES MULTIPLE PRIORITIES



#### STAKEHOLDER ENGAGEMENT

#### Community Open Houses

- » Three rounds of public meetings & webcasts
  - Fall 2015, Summer 2016, Winter 2017
  - Interpreter services provided in Spanish
- » September 2018 Open Houses:
  - Edison: September 10, 2018
  - Lancaster: September 12, 2018



#### Agency/Stakeholder Working Groups

- » Five rounds of meetings
  - September 2015, March 2016, June 2016
  - January 2017, and September 2018
- » 420+ organizations invited



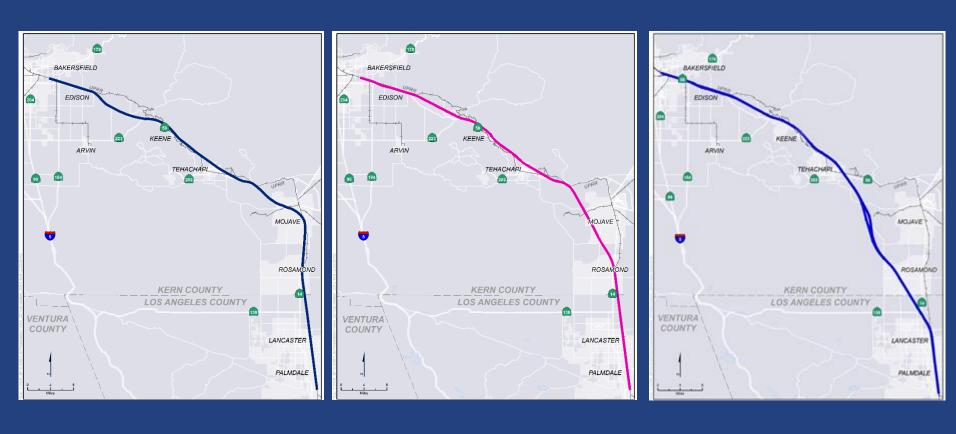
#### Ongoing Community Activities

- » 250+ meetings with key stakeholders and community organizations
- » Information booths at various community events
- » Multi-faceted, bilingual approach focused on reaching all communities
- » Partnership opportunities welcome
- » "24/7" public online commenting

# BAKERSFIELD TO PALMDALE PROJECT SECTION



#### **ROUTE CONCEPTS STUDIED OVER TIME**



2010 2012 2018

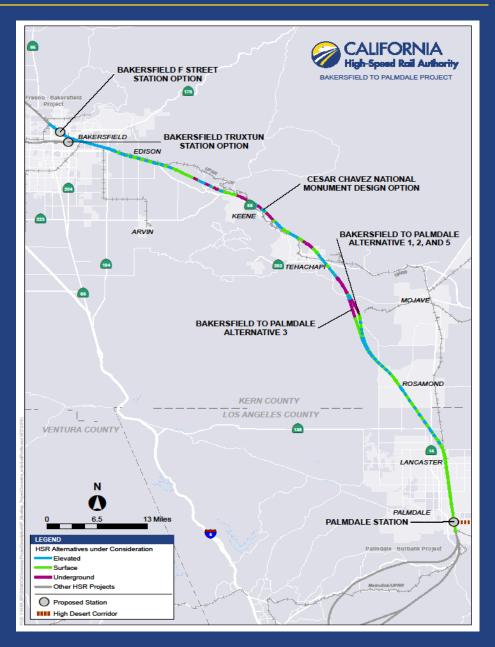
Close Passenger Rail Gap Between the Central Valley and Southern California with Express Electric Service

#### **BAKERSFIELD TO PALMDALE ROUTES CURRENTLY UNDER STUDY**

- Alternatives 1, 2, 3, 5
- Length: Approx. 80 Miles
- Two Stations
  - » Bakersfield (Central Valley)
  - » Palmdale (Antelope Valley)

#### Key Considerations

- » Downtown areas, schools, and communities
- » Green energy generation
- » Ranches, agriculture, mining, businesses
- » Natural lands, monuments



#### **BAKERSFIELD TO PALMDALE STATIONS**

#### Station Facilities

- » Integrate with existing facilities, where available
- » Tracks & platforms
- » Passenger amenities
- » Parking (bike & car)
- » Pick-up/drop-off (all modes)

#### Station Access

- » Pedestrian access & safety
- » Bike connectivity to station
- » Direct rail & transit connections
- » Auto circulation (traffic considerations)



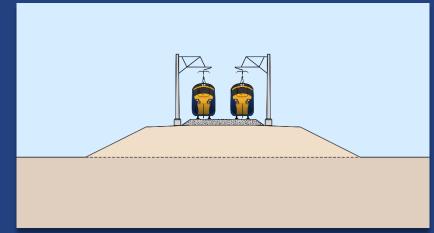
#### **BAKERSFIELD/EDISON AREA**

- Two routes studied
- Connect to preferred Bakersfield station (F Street)
- Minimize impacts to Edison school and businesses



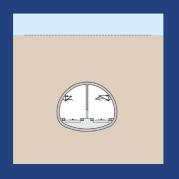
**School Street Looking Southwest** 

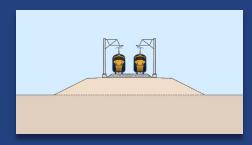




#### NORTH SLOPE OF THE TEHACHAPIS

 Cross Caliente Creek and climbing into the Tehachapis

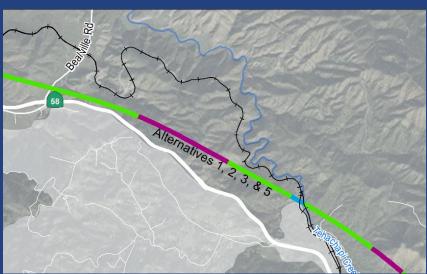




Bena Road Facing North

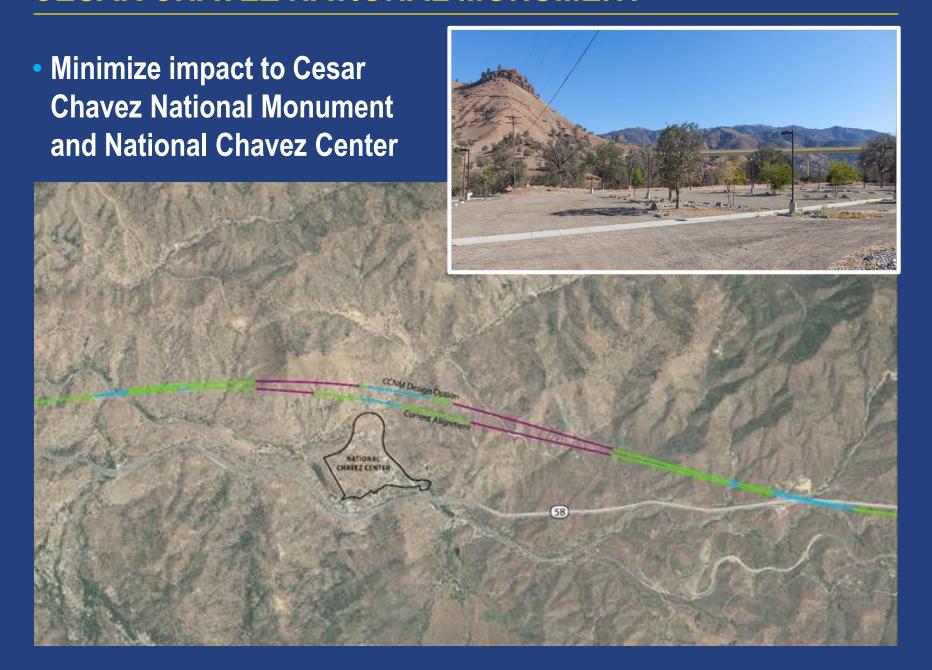






Photos and graphics for illustrative purposes only.

#### **CESAR CHAVEZ NATIONAL MONUMENT**



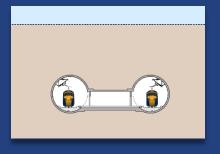
#### **CITY OF TEHACHAPI**

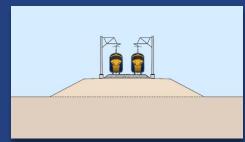
- Avoid new development, recreation areas, and downtown
- Cross SR 58 Near Dennison Road
- Minimize impact to existing homes and businesses

**SR 58 Looking Southeast** 









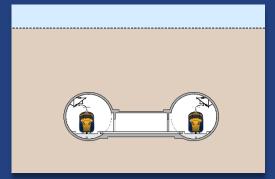
#### **SOUTH SLOPE OF THE TEHACHAPIS & MOJAVE AREA**

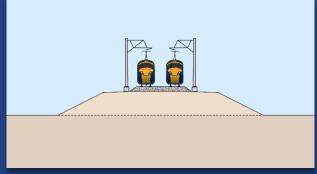
- Two routes studied
- Minimize potential impacts to Pacific Crest Trail
- Optimize tunnel design
- Reduce impacts to existing facilities



#### **Pacific Crest Trail Looking West**

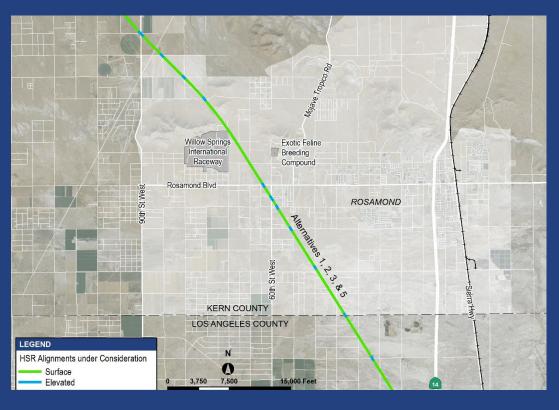


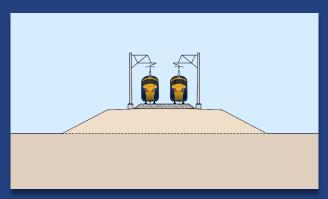




#### **COMMUNITY OF ROSAMOND**

- Avoid the Downtown area
- Accommodate
   circulation, street
   crossings, wildlife,
   drainage and utilities







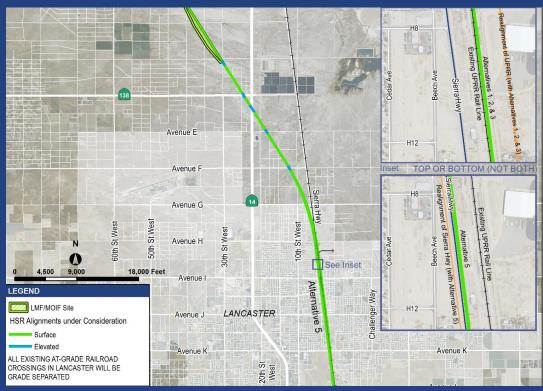


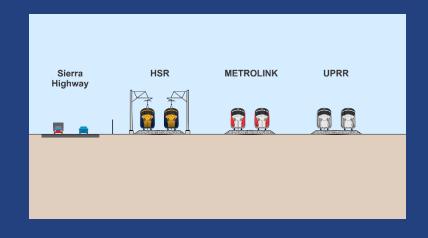
#### **CITY OF LANCASTER**

- Two routes studied
- Consolidate rail lines into one sealed rail corridor
- Reduce impacts from Grade Separations

**Sierra Highway Bike Path Looking North** 







#### **CONNECTION TO PALMDALE STATION**

- Avoids Plant 42 & Palmdale Airport Airspace
- Consolidate rail lines into one sealed rail corridor
- Reduce impacts from grade separations
- Plan for a multi-modal shared station and future out of state connections





#### **Avenue Q7 Looking West**



#### PROJECT FEATURES: GRADE SEPARATIONS

Grade Separations (73 roads)

#### **Cities/Communities**

- 1. Edison 20
- 2. Keene 6
- 3. Tehachapi 5
- 4. Antelope Valley 17
- 5. Rosamond 12
- 6. Lancaster 8
- 7. Palmdale 5
- Additional Future Grade Separations Planned by Local Authorities



#### **ADDITIONAL HIGH-SPEED RAIL FEATURES**

#### Overhead Catenary Systems

» Supplies electric energy to rail vehicles

#### Paralleling Station

- » Provides voltage stabilization and equalizes current flow
- » The Paralleling Stations are located every 5 miles between Switching Stations and Substations

#### Switching Station

- » Provides for transfer of power supply from one substation to another
- » Located approximately every 30 miles near the mid-point between the substations

#### Communication Tower

- » Uses a radio-based communications network to provide positive train control
- » Located every 2-3 miles
- Maintenance Facilities
- Maintenance of Way



Overhead Catenary System



Paralleling/Switching Station



**Communication Tower** 

#### **CORRIDOR/SHARED CORRIDOR FEATURES**

#### Corridor Protection

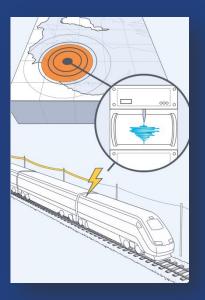
- » Fencing
- » Walls
- » Sound walls

#### Positive Train Control

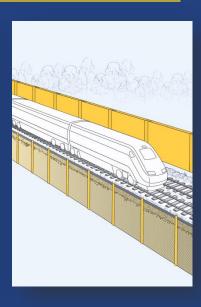
- » Restricts speed limits and serves as fail-safe system
- » Takes over system, preventing running red signals

#### Corridor Intrusion Detection

- Early Earthquake Warning System
  - » Detects initial wave produced by a seismic event
  - » Immediately cuts off power to trains



Early Earthquake Warning



Intrusion Protection



Soundwall Example

# ENVIRONMENTAL PROCESS & STATE'S PREFERRED ALTERNATIVE



# ENVIRONMENTAL PROCESS & IDENTIFYING A STATE'S PREFERRED ALTERNATIVE



Public and Stakeholder Outreach & Input

#### **ENVIRONMENTAL DOCUMENT CONTENT**

#### **Environmental Documents Analyze These Topics**





- Aesthetics & Visual Quality
- Air Quality & Global Climate Change
- Biological Resources & Wetlands
- Capital & Operating Costs
- Cultural Resources
- Cumulative Impacts
- Electromagnetic Interference/Fields (EMI/EMF)
- Environmental Justice
- Geology, Soils, Seismicity & Paleontology
- Hazardous Materials & Wastes

- Hydrology & Water Resources
- Noise & Vibration
- Parks, Recreation & Open Space
- Public Utilities & Energy
- Regional Growth
- Safety & Security
- Station Planning, Land Use & Development
- Section 4(f) & Section 6(f) Evaluations
- Socioeconomics & Communities
- Transportation

#### **AVOIDING, MINIMIZING & MITIGATING POTENTIAL IMPACTS**

#### Authority strives to:

- 1. Avoid adverse impacts
- 2. Minimize impacts, when they cannot be avoided
- **3. Mitigate** impacts, when they cannot be avoided or minimized

#### Ongoing during Planning & Design

- » Based on community & stakeholder feedback
- Ongoing agency coordination



#### **IDENTIFYING STATE'S PREFERRED ALTERNATIVE**

- The Authority's Board of Directors is scheduled to identify the State's Preferred Alternative in October 2018
- Federal NEPA processes encourages federal and state agencies to identify Preferred Alternative <u>before</u> the release of the Draft Environmental Documents
- Staff will recommend that Alternative 2
  be identified as the State's Preferred
  Alternative in the Draft EIR/EIS
- Staff further recommends incorporation of the CCNM Design Option



"Provide the public with electric-powered HSR service that offers predictable and consistent travel times between major urban centers"

-HSR EIR/S Purpose and Need

#### **STATE'S PREFERRED ALTERNATIVE – ALTERNATIVE 2**

#### Studied alternatives 1,2, 3 & 5

#### Two Stations

- » Bakersfield (Central Valley) (F Street Station Preferred Option)
- » Palmdale (Antelope Valley)

#### Features of Alternative 2

- » Does not require relocation of SR 58
- » Includes CCNM Design Option
- » Has fewer miles of tunnel construction
- Consolidates rail line into one corridor in Lancaster and Palmdale
- » Results in fewer potential impacts to residents, businesses, community resources and the environment



## **NEXT STEPS**



#### STATE'S PREFERRED ALTERNATIVE OPEN HOUSE MEETINGS

Lancaster

Wednesday, Sept. 12<sup>th</sup> / Stanley Kleiner Activity Building

\*All meetings will be held from 5:30 p.m. – 7:30 p.m.

#### **BAKERSFIELD TO PALMDALE PROJECT SECTION \***

**Alternative Development** & Public Alternatives Outreach **Analysis** Identification of ARE State's Preferred HERE **Alternative** DRAFT Project-Release of **Draft EIR/S** and **Hearings** FINAL Project-Level Environmental Completion Documents of EIR/S and

**Adoption** 

2016

**ADVANCE RANGE OF ALTERNATIVES** 

**Engagement with Agencies and Community** Conceptual Engineering and Desktop Studies **Mapping and Field Data Collection** 

2017 to 2018

**IDENTIFY STATE'S PREFERRED** 

**ALTERNATIVE** 

**Ongoing Communication/Engagement Extensive Environmental Analysis** 

**Preliminary Engineering** 

Board Presentation of State's Preferred Alternative

**Summer 2019** 

DRAFT ENVIRONMENTAL DOCUMENT

**Ongoing Communication/Engagement and** 

**Public Hearings** 

**Response to Comments** 

Summer 2020

FINAL ENVIRONMENTAL DOCUMENT

**Community Open Houses & Briefings** 

**Authority Board Decision (Notice of Determination)** 

**NEPA Decision (Record of Decision)** 

#### **STAY INVOLVED**

#### **Bakersfield to Palmdale Project Section**

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